

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
S/267 DIVAPPLN. NO.
10/680,000APPLICANT
Daniel Aeschlimann et al.

Conf. No. 4529

FILING DATE
10/06/2003GROUP ART UNIT
1623INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

UNITED STATES. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE
	4,517,295	05/14/85	Bracke et al.	435	101	
	4,582,865	04/15/86	Balazs et al.	524	29	
	4,703,108	10/27/87	Silver et al.	530	356	
	4,713,448	12/15/87	Balazs et al.	536	55.1	
	4,780,414	10/25/88	Nimrod et al.	435	101	
	4,784,659	11/15/88	Fleckenstein et al.	623	1	
	4,801,539	01/31/89	Akasaka et al.	435	101	
	4,897,349	01/30/90	Swann et al.	435	101	
	4,957,744	09/18/90	della Valle et al.	424	401	
	4,970,298	11/13/90	Silver et al.	530	356	
	5,017,229	05/21/91	Burns et al.	106	162	
	5,166,331	11/24/92	della Valle et al.	536	55.1	
	5,270,300	12/14/93	Hunziker	514	12	
	5,316,926	05/31/94	Brown et al.	435	101	
	5,336,767	08/09/94	della Valle et al.	536	55.1	
	5,356,883	10/18/94	Kuo et al.	514	54	
	5,368,858	11/29/94	Hunziker	424	423	
	5,413,791	05/09/95	Rhee et al.	424	422	
	5,466,462	11/14/95	Rosenthal et al.	424	426	
	5,468,787	11/21/95	Braden et al.	523	113	
	5,502,081	03/26/96	Kuo et al.	514	777	
	5,512,301	04/30/96	Song et al.	424	484	
	5,527,893	06/18/96	Burns et al.	514	53	
	5,565,210	10/15/96	Rosenthal et al.	424	426	
	5,567,806	10/22/96	Abdul-Malak et al.	530	356	
	5,616,568	04/01/97	Pouyani et al.	514	54	
	5,652,347	07/29/97	Pouyani et al.	536	18.5	

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	5,693,341	12/02/97	Schroeder	424	488	
	5,700,476	12/23/97	Rosenthal et al.	424	426	
	5,769,899	06/23/98	Schwartz et al.	623	18	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 90/06767	06/28/90	PCT	A61K	37/02		
	WO 96/15888	05/30/96	PCT	B28B3	00		
	WO 97/45532	12/04/97	PCT	C12N	5/00		
	WO 97/18244	5/22/97	PCT	C08B	37/08		
	FR 96 12200	10/07/96	France				

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LCM	Adams, M.E., "Viscosupplementation as articular therapy," in The Chemistry, Biology and Medical Applications of Hyaluronan and Its Derivatives, T.C. Laurent (ed.), Portland Press, London, pp. 243-253 (1998).
LCM	Amiel et al., "The chondrogenesis of rib perichondrial grafts for repair of full thickness articular cartilage defects in a rabbit model: A one year postoperative assessment." Connect. Tissue Res. 18, pp. 27-39 (1988).
LCM	Balazs and Laurent, "Round table discussion: new applications for hyaluronan," in The Chemistry, Biology and Medical Applications of Hyaluronan and Its Derivatives, T.C. Laurent (ed.), Portland Press, London, pp. 325-336 (1998).
LCM	Band, P.A., "Hyaluronan derivatives: chemistry and clinical applications," in The Chemistry, Biology and Medical Applications of Hyaluronan and Its Derivatives, T.C. Laurent (ed.), Portland Press, London, pp. 33-42 (1998).
LCM	Bitter and Muir, "A Modified Uronic Acid Carbazole Reaction," Anal. Biochem., 4, pp. 330-334 (1962).
LCM	Brittberg et al., "Treatment of deep cartilage defects in the knee with autologous chondrocyte transplantation," New Engl. J. Med., 331, pp. 889-895 (1994).

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LCM	Cha, J.S., "Recent developments in the synthesis of aldehydes by reduction of carboxylic acids and their derivatives with metal hydrides. A review," <i>Org. Prep. Proc. Int.</i> , 21, pp. 451-477 (1989).
LCM	Cha et al., "Direct Transformation of Carboxylic Acids into Aldehydes through Acyloxy-9-borabicyclo [3.3.1]nonane," <i>Bull. Korean Chem. Soc.</i> , 9, pp. 48-52 (1988).
LCM	Chu et al., "Articular cartilage repair using allogeneic perichondrocyte-seeded biodegradable porous polylactic acid (PLA): A tissue-engineering study," <i>J. Biomed. Mat. Res.</i> , 29, pp. 1147-1154 (1995).
LCM	Curvall et al., "Modification of polysaccharides containing uronic acid residues," <i>Carbohydr. Res.</i> , 41, pp. 235-239 (1975).
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LCM	Danishefsky and Siskovic, "Conversion of carboxyl groups of mucopolysaccharides into amides of amino acid esters," <i>Carbohydr. Res.</i> , 16, pp. 199-205 (1971).
LCM	Denlinger, J.L., "Hyaluronan and its derivatives as viscoelastics in medicine," in <i>The Chemistry, Biology and Medical Applications of Hyaluronan and Its Derivatives</i> , T.C. Laurent (ed.), Portland Press, London, pp. 235-242 (1998).
LCM	Drobnik, J., "Hyaluronan in drug delivery," <i>Adv. Drug Delivery Rev.</i> , 7, pp. 295-308 (1991).
LCM	Fraser et al., "Catabolism of hyaluronan," in <i>The Chemistry, Biology and Medical Applications of Hyaluronan and Its Derivatives</i> , T.C. Laurent (ed.), Portland Press, London, pp. 85-92 (1998).
LCM	Freed et al., "Joint resurfacing using allograft chondrocytes and synthetic biodegradable polymer scaffolds," <i>J. Biomed. Mat. Res.</i> , 28, pp. 891-899 (1994).
LCM	Gombotz and Pettit, "Biodegradable Polymers for Protein and Peptide Drug Delivery," <i>Bioconjugate Chem.</i> , 6, pp. 332-351 (1995).
LCM	Grammatikakis et al., "A Novel Glycosaminoglycan-binding Protein Is the Vertebrate Homologue of the Cell Cycle Control Protein, Cdc37," <i>J. Biol. Chem.</i> , 270, pp. 16198-16205 (1995).
LCM	Grande et al., "The Repair of Experimentally Produced Defects in Rabbit Articular Cartilage by Autologous Chondrocyte Transplantation," <i>J. Orthop. Res.</i> , 7, pp. 208-218 (1989).
LCM	Gustafson, S., "Hyaluronan in drug delivery," in <i>The Chemistry, Biology and Medical Applications of Hyaluronan and Its Derivatives</i> , T.C. Laurent (ed.), Portland Press, London, pp. 291-304 (1998).
LCM	Harada et al., "Chondrogenesis and Osteogenesis of Bone Marrow-derived Cells by Bone-inductive Factor," <i>Bone</i> , 9, pp. 177-183 (1988).

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LCM	Hauselmann et al., "Adult human chondrocytes cultured in alginate form a matrix similar to native human articular cartilage," <i>Am J. Physiol.</i> , 271, pp. C742-C752 (1996).
DUP	Hohenadl et al., "Two Adjacent N-terminal Glutamines of BM-40 (Osteonectin, SPARC) Act as Amine Acceptor Sites in Transglutaminase C-catalyzed Modification," <i>J. Biol. Chem.</i>, 270, pp. 23415-23420 (1995).
LCM	Homminga et al., "Perichondral grafting for cartilage lesions of the knee," <i>J. Bone Joint Surg.</i> , 72-B, pp. 1003-1007 (1990).
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LCM	Kalb and Cowley, "Hope for Damaged Joints," <i>Newsweek</i> , p. 55, January 29, 1996.
LCM	King et al., "Beneficial actions of exogenous hyaluronic acid on wound healing," <i>Surgery</i> , 109, pp. 76-84 (1991).
LCM	Knudson, C.B., "Hyaluronan Receptor-directed Assembly of Chondrocyte Pericellular Matrix," <i>J. Cell Biol.</i> , 120, pp. 825-834 (1993).
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LCM	Kuettner et al., "Synthesis of Cartilage Matrix by Mammalian Chondrocytes in vitro. I. Isolation, Culture Characteristics, and Morphology," <i>J. Cell Biol.</i> , 93, pp. 743-750 (1982).
DUP	Kuo et al., "Chemical Modification of Hyaluronic Acid by Carbodiimides," <i>Bioconjugate Chem.</i>, 2, pp. 232-241 (1991).
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LCM	Kvam et al., "Purification and Characterization of Hyaluronan from Synovial Fluid," <i>Anal. Biochem.</i> , 211, pp. 44-49 (1993).
LCM	Larsen, N.E., "Management of adhesion formation and soft tissue augmentation with viscoelastics: hyaluronan derivatives," in <i>The Chemistry, Biology and Medical Applications of Hyaluronan and Its Derivatives</i> , T.C. Laurent (ed.), Portland Press, London, pp. 267-281 (1998).

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LCM	McPherson et al., "Collagen Fibrillogenesis In Vitro: A Characterization of Fibril Quality as a Function of Assembly Conditions," <i>Collagen Rel. Res.</i> , 5, pp. 119-135 (1985).
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LCM	Nakahara et al., "Culture-Expanded Periosteal-Derived Cells Exhibit Osteochondrogenic Potential in Porous Calcium Phosphate Ceramics In Vivo," <i>Clin. Orthop.</i> , 276, pp. 291-298 (1992).
DWP	Noble et al., "Induction of inflammatory gene expression by low-molecular-weight hyaluronan fragments in macrophages," in <i>The Chemistry, Biology and Medical Applications of Hyaluronan and Its Derivatives</i> , T.C. Laurent (ed), Portland Press, London, pp. 219-225 (1998).
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LCM	Sampath et al., "Recombinant Human Osteogenic Protein-1 (hOP-1) Induces New Bone Formation in Vivo with a Specific Activity Comparable with Natural Bovine Osteogenic Protein and Stimulates Osteoblast Proliferation and Differentiation in Vitro," <i>J. Biol. Chem.</i> , 267, pp. 20352-20362 (1992).
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LCM	Sheng et al., "A Specific Quantitative Colorimetric Assay for L-Asparagine," <i>Anal. Biochem.</i> , 211, 242-249 (1993).
LCM	Shortkroff et al., "Healing of chondral and osteochondral defects in a canine model: the role of cultured chondrocytes in regeneration of articular cartilage," <i>Biomaterials</i> , 17, pp. 147-154 (1996).
LCM	Strachan et al., "Hyaluronate in rheumatology and orthopaedics: Is there a role?" <i>Ann. Rheum. Dis.</i> , 49, 949-952 (1990).
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LCM	Wakitani et al., "Mesenchymal Cell-Based Repair of Large, Full-Thickness Defects of Articular Cartilage," <i>J. Bone Joint Surg.</i> , 76-A, pp. 579-592 (1994).
LCM	Wakitani et al., "Repair of rabbit articular surfaces with allograft chondrocytes embedded in collagen gel," <i>J. Bone Joint Surg.</i> , 71-B, pp. 74-80 (1989).
LCM	Wang et al., "Recombinant human bone morphogenetic protein induces bone formation," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 87, pp. 2220-2224 (1990).
LCM	Weiss, C., "Viscoseparation and viscoprotection as therapeutic modalities in the musculoskeletal system," in <i>The Chemistry, Biology and Medical Applications of Hyaluronan and Its Derivatives</i> , T.C. Laurent (ed.), Portland Press, London, pp. 255-265 (1998).
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